50V CERAMIC DISC

89000 SERIES

The 89000 series is a range of insulated disc, monolythic fixed ceramic capacitors. They are most commonly used in consumer electronics and telecommunication equipment.

RATINGS

Capacitance Range: 1.0pf to 0.10µf (100,000pf)

Voltage: 50 Volts DC

Withstand Voltage: 150 Volts DC

PERFORMANCE SPECIFICATIONS

Operating Temperature Range:

–25°C to +85°C (–13°F to +185°F)

Tolerance Range:

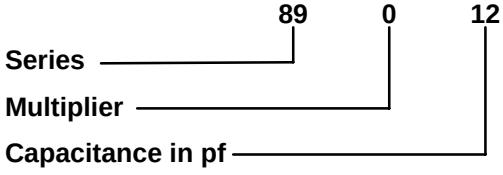
8901D0–89010	±0.5pf
89012–89312	±10%
89315	±20%
89322–89410	+80%, –20%

Temperature Coefficient:

8901D0–89110	–	NPO (Stable)
89112–89310	–	YSP (±10%)
89312–89315	–	Y5R (±15%)
89322–89410	–	Y5V (+30% – 80%)

Insulation Resistance: 10,000MΩ Min, but, 5,000MΩ Min for capacitance over 0.020µf

ORDERING INFORMATION

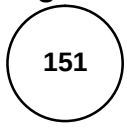


Example: 8901D5 = 1.5pf
89012 = 12pf
89112 = 120pf

MARKING EXAMPLE

Example: 150pf = 151
1500pf = 152
0.015µf = 153

Figure 1



89000 Series Dimensions (Figure 2)

Cap pf	DØ mm	T mm	S mm	Cap pf	DØ mm	T mm	S mm
1.0pf	4	4	2.5	220pf	4	4	2.5
1.5pf	4	4	2.5	330pf	4	4	2.5
2.0pf	4	4	2.5	470pf	4	4	2.5
3.0pf	4	4	2.5	680pf	4	4	2.5
5.0pf	4	4	2.5	820pf	5	4	2.5
6.0pf	4	4	2.5	1000pf	5	4	2.5
7.0pf	4	4	2.5	1200pf	5	4	2.5
8.0pf	4	4	2.5	1500pf	5	4	2.5
10pf	4	4	2.5	2200pf	5	4	2.5
12pf	4	4	2.5	3300pf	8	4	5.1
15pf	4	4	2.5	4700pf	8	4	5.1
18pf	5	4	2.5	5600pf	9.5	4	5.1
22pf	5	4	2.5	6800pf	9.5	4	5.1
33pf	5	4	2.5	8200pf	10.5	3	5.1
39pf	6.3	4	5.1	0.01µf	12.5	3	5.1
47pf	6.3	4	5.1	0.012µf	6.3	4	5.1
56pf	6.3	4	5.1	0.015µf	6.3	4	5.1
68pf	8	4	5.1	0.022µf	8	4	5.1
82pf	8	4	5.1	0.047µf	12.5	4	5.1
100pf	8	4	5.1	0.068µf	12.25	3.25	7.5
120pf	4	4	2.5	0.10µf	7.3	3.25	4.5

Figure 2

